PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY



	(文编中)
	05.12.27
CT	門中国際
_	

To: OKABE INTERNATIONAL PATENT OFFICE Attn. Okabe. Masao

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE MOUTEN ORIGINAL OF THE INTERNATIONAL

No. 602 Fuji Bldg. 2-3, Marunouchi 3-chome Chiyoda~ku Tokyo 100-0005 JAPAN	SEARCHING AUTHORITY, OR THE DECLARATION
	(PCT Rule 44.1)
	Date of mailing (day/month/year) 22/12/2005
Applicant's or agent's file reference	FOR FURTHER ACTION
10019202W001	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/JP2005/020050	International filing date (day/month/year) 26/10/2005
Applicant	
CANON KABUSHIKI KAISHA	
The applicant is hereby notified that the international search Authority have been established and are transmitted herewire Filing of amendments and statement under Article 19:	
The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is norr International Search Report.	··
Where? Directly to the International Bureau of WIPO, 34 1211 Geneva 20, Switzerland, Far more detailed instructions, see the notes on the accordance.	scimile No.: (41–22) 338.82.70
2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the in	
3. With regard to the protest against payment of (an) addition	nal fee(s) under Rule 40.2, the applicant is notified that:
applicant's request to forward the texts of both the prot	n transmitted to the International Bureau together with the test and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the app	nicant will be notified as soon as a decision is made.
4. Reminders Shortly after the expiration of 18 months from the priority date, the International Bureau. If the applicant wishes to avoid or postpone application, or of the priority claim, must reach the International Bubefore the completion of the technical preparations for internation.	publication, a notice of withdrawal of the international areau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively,
The applicant may submit comments on an informal basis on the value international Bureau. The International Bureau will send a copy of international preliminary examination report has been or is to be ethe public but not before the expiration of 30 months from the prior	such comments to all designated Offices unless an stablished. These comments would also be made available to
Within 19 months from the priority date, but only in respect of son examination must be filed if the applicant wishes to postpone the date (in some Offices even later); otherwise, the applicant must, wacts for entry into the national phase before those designated Offices.	entry into the national phase until 30 months from the priority within 20 months from the priority date, perform the prescribed
In respect of other designated Offices, the time limit of 30 months months.	(or later) will apply even if no demand is filed within 19
See the Annex to Form PCT/IB/301 and, for details about the application Guide, Volume II, National Chapters and the WIPO Internet site.	licable time limits, Office by Office, see the PCT Applicant's

Name and r	nailing address of	the Internat	ional Searching	g Authority
-	European Patent	Office, P.B.	5818 Patentla	an 2

NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Anne Witzig

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filling of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant-wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the International application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed:
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended, it must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
10019202WO01	ACTION as we	as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/JP2005/020050	26/10/2005	29/10/2004
Applicant		,
CANON KABUSHIKI KAISHA		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Au ansmitted to the International Bureau.	thority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in thi	s report.
Basis of the report With regard to the language, the	international search was carried out on the b	asis of the international application in the
	ess otherwise indicated under this item.	asis of the international application in the
The international this Authority (Rul		slation of the international application furnished to
b. With regard to any nucleo	ntide and/or amino acid sequence disclose	d in the international application, see Box No. I.
2. Certain claims were four	nd unsearchable (See Box II).	
3. Unity of invention is lack	king (see Box III).	
4. With regard to the title,		
X the text is approved as su	bmitted by the applicant.	
the text has been establish	ned by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as sul	•	
		rity as it appears in Box No. IV. The applicant rch report, submit comments to this Authority.
With regard to the drawings,		
	ublished with the abstract is Figure No. 1	
X as suggested by the	• •	
	Authority, because the applicant failed to su	
'	 Authority, because this figure better charact published with the abstract. 	erizes the invention.
D. L Home of the rightes is to be	- Pannoned with the aboutor	

International Application No PCT/JP2005/020050

CLASSIFICATION OF	
GD1N21	

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched} & \text{(classification system followed by classification symbols)} \\ & & G01N & G01J \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, INSPEC, BIOSIS

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 2002/068018 A1 (PEPPER DAVID M ET AL) 6 June 2002 (2002-06-06) figures 1,4,5,7	1-9
х	US 2004/058339 A1 (NAGEL MICHAEL ET AL) 25 March 2004 (2004-03-25) figures 4-6	1–9
	-/	
		·

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filling date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filling date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search 15 December 2005	Date of mailing of the international search report 22/12/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Mason, W

1

International Application No
PCT/JP2005/020050

1-9
1-9
1-9
1-9
1-9

1

International Application No PCT/JP2005/020050

	uation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NAGEL M ET AL: "INTEGRATED PLANAR TERAHERTZ RESONATORS FOR FEMTOMOLAR SENSITIVITY LABEL-FREE DETECTION DNA HYBRIDIZATION" APPLIED OPTICS, OSA, OPTICAL SOCIETY OF AMERICA, WASHINGTON, DC, US, vol. 41, no. 10, 1 April 2002 (2002-04-01), pages 2074-2078, XP001102355 ISSN: 0003-6935 figure 1	1-9
Α	NAGEL M ET AL: "A functionalized THz sensor for marker-free DNA analysis" PHYSICS IN MEDICINE AND BIOLOGY IOP PUBLISHING UK, vol. 48, no. 22, 21 November 2003 (2003-11-21), pages 3625-3636, XP009058954 ISSN: 0031-9155 figures 1,2	1-9
Α	STEWING F ET AL: "A new class of improved-efficiency THz filters for on-chip detection of biomaterials" MICROWAVE AND OPTICAL TECHNOLOGY LETTERS WILEY USA, vol. 41, no. 2, 20 April 2004 (2004-04-20), pages 79-82, XP009058933 ISSN: 0895-2477 figures 1,2,5	1-9
A	BARAS T ET AL: "On-chip THz detection of biomaterials: A numerical study." JOURNAL OF BIOLOGICAL PHYSICS, vol. 29, no. 2-3, 2003, pages 187-194, XP009058927 ISSN: 0092-0606 figures 1,4	1-9
	•	

information on patent family members

International Application No
PCT/JP2005/020050

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002068018 /	1 06-06-2002	AU 3952402 A EP 1340065 A2 JP 2004515764 T WO 0246748 A2	18-06-2002 03-09-2003 27-05-2004 13-06-2002
US 2004058339 /	1 25-03-2004	AU 7955501 A WO 0204928 A1 DE 10192655 D2 EP 1301774 A1	21-01-2002 17-01-2002 12-06-2003 16-04-2003
JP 2001074647	23-03-2001	NONE	
DE 10257225	33 08-04-2004	NONE	
US 6573737	31 03-06-2003	NONE	